

**TRANSLATION**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>104000WO</b>	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/EP2005/001272</b>	International filing date ( <i>day/month/year</i> ) <b>09.02.2005</b>	Priority date ( <i>day/month/year</i> ) <b>19.02.2004</b>	
International Patent Classification (IPC) or national classification and IPC <b>B66C9/08</b>			
Applicant <b>DEMAG CRANES &amp; COMPONENTS GMBH</b>			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of _____ sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <b>10</b> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>																								
<p>4. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input checked="" type="checkbox"/>	Box No. VII	Certain defects in the international application	<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application
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Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/EP2005/001272

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 

This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
 
  - international search (Rule 12.3 and 23.1(b))
  - publication of the international application (Rule 12.4)
  - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
 

the international application as originally filed/furnished  
 the description:  
 pages \_\_\_\_\_ as originally filed/furnished  
 pages\* 1-8 received by this Authority on 11.06.2005 with letter of 10.06.2005  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 the claims:  
 nos. \_\_\_\_\_ as originally filed/furnished  
 nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19  
 nos.\* 1-10 received by this Authority on 11.06.2005 with letter of 10.06.2005  
 nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 the drawings:  
 sheets 1/1 as originally filed/furnished  
 sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.  The amendments have resulted in the cancellation of:
 

the description, pages \_\_\_\_\_  
 the claims, nos. \_\_\_\_\_  
 the drawings, sheets/figs \_\_\_\_\_  
 the sequence listing (*specify*): \_\_\_\_\_  
 any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 

the description, pages \_\_\_\_\_  
 the claims, nos. \_\_\_\_\_  
 the drawings, sheets/figs \_\_\_\_\_  
 the sequence listing (*specify*): \_\_\_\_\_  
 any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/EP2005/001272

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims	7–9	YES
	Claims	1–6, 10	NO
Inventive step (IS)	Claims	7–9	YES
	Claims	1–6, 10	NO
Industrial applicability (IA)	Claims	1–10	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

**1. Lack of novelty:** claims 1–6 and 10

The subject matter of independent claims 1–6 and 10 is also not novel within the meaning of PCT Article 33(2).

## 1.1 In relation to independent claim 1:

The closest prior art is seen in DE-A-28 18 170 (D1).

D1 discloses a (cf.):

a) Rotor block having a housing (2, 3) with at least one connecting face (1) which absorbs the carrying force, and *A rotor block denotes a unit having one or more rotors. A crane end carriage represents a rotor block in this context.*

b) having rotational bearing seat faces (5, 6) for sliding and/or roller bearings (7, 8) for mounting a rotor (15),

c) wherein, in order to dismantle the rotor (15) from the housing (2, 3), the sliding and/or roller bearings (7, 8) can be dismantled in an outward direction and the rotor (15) can be dismantled towards a side which lies transversely with respect to the former,

d) wherein the rotational bearing seat faces (5, 6) are configured, without the use of annular bodies, directly

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**International application No.  
PCT/EP2005/001272**Box No. V**      **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

as cut-outs (18) which are provided in the housing wall,

and

e) wherein the rotational bearing seat faces (5, 6) are configured in such a way that they enclose the sliding and/or roller bearings (7, 8) by more than 180°

f) and are open in relation to the sliding and/or roller bearings (7, 8) to the side so as to form a constriction (18), and

g) the rotor (15) protrudes to the side (figure 3) out of the housing in the installed state.

*Claim 1 does not make it clear whether the wheel protrudes (for example, downwards) out of the same side, on which the openings in the rotational bearing seat faces are situated, or not.*

1.2 In relation to claims 2-6 and 10:

The features of dependent claims 2-6 and 10 are likewise apparent from D1 and are therefore not suitable to convey the novelty (see figures 2 and 3).

2. In relation to dependent claim 7:

Furthermore, claim 7 discloses that the cut-outs have a lower region which forms, in particular, an elbow open to the side and adjoins the upper region at the constriction.

Under the precondition that the expression "in particular" were deleted (as this expression does not restrict the scope of protection, that is to say, any feature preceded by such an expression must be considered entirely optional (PCT Article 6)), the features which

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.  
PCT/EP2005/001272

**Box No. V      Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

are contained in dependent claim 7 would neither be anticipated nor rendered obvious by the available prior art and would therefore be suitable for conveying novelty and inventive step.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**International application No.  
PCT/EP2005/001272**Box No. VII      Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

1. Closest prior art:

Claim 1 has been duly drafted in the two-part form, but the features e) - g) under point 1.1 should not have been included in the characterizing part, since they were disclosed in D1 in conjunction with the features indicated in the preamble (PCT Rule 6.3(b)).

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.  
PCT/EP2005/001272

**Box No. VIII      Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

See point 2.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.  
PCT/EP2005/001272

**Supplemental Box**

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:

Box I:

Reference is made to the following document:

D1: DE-A-28 18 170